



National Weather Service

Storm Data and Unusual Weather Phenomena



April 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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ILLINOIS, Northwest

Jo Daviess County

East Dubuque to 3.5 N Galena	16 17	2352CST 0010CST			0 0	70K	Thunderstorm Wind (EG52)
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Stephenson County

Winslow	17	0033CST 0038CST			0 0	10K	Thunderstorm Wind (EG52)
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Thunderstorms developed during the evening hours along a cold front moving through Iowa and became severe as a mesoscale low developed in East Central Iowa. A wake low developed just behind the storms and provided sustained winds over 26 knots (30 mph) that lasted for 20 to 30 minutes. The storms and wake low moved east along U.S. 20 through Northeast Iowa and Northwest Illinois. The storms were quite prolific in producing pea to just under .75 inch hail. Significant damage occurred on the south side of Dubuque, Iowa with numerous trees and power lines down and a radio tower mangled. In Jo Daviess County Illinois, a continuous area of damage occurred from the flats near East Dubuque, Illinois through Menominee and Vinegar Hill townships. Numerous trees were either uprooted or decapitated with many buildings (farm and garage) damaged or destroyed.

Bureau County

.5 W Whitefield to 1.2 NE Whitefield	20	1617CST 1619CST	1.7	100	0 0	10K	Tornado (F0)
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Rated high end F0

Tornado formed 0.4 miles northwest of Camp Grove in Marshall county (WFO ILX) at 1606 CST and traveled northeast and entered Southern Bureau County at 1617 CST 0.5 miles West of Whitefield. The tornado dissipated at 1619 CST 1.2 miles northeast of Whitefield near the intersection of 50 North/1925 East. In Bureau County, the tornado was on the ground for 1.7 miles and had a width of 100 yards. A farmstead near county roads 00 N and 1775 E, West of Whitefield, had a barn and several outbuildings damaged with damage to the roof of the farmhouse.

Putnam County

.7 NNE Florid to 3.8 NE Granville	20	1644CST 1653CST	6.8	880	0 5	8M	Tornado (F2)
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Rated very high end F2

The low topped supercell that produced 2 earlier tornadoes in Stark and Marshall/Bureau counties continued to be a cyclic tornado producer. The deadliest and longest lived tornado started at 1644 CST, 0.7 miles North Northeast of Florid in Putnam County and moved northeast toward Granville. The long lived nature of the tornado was due to it riding along a warm front pushing through Putnam and La Salle counties. Satellite imagery indicated a strengthening mesocyclone at 1625 CST (2225 Z) with the formation of a new line of feeder clouds into the supercell, and KDVN 88D velocity data showed a strengthening TVS signature by 1635 CST (2235 Z).

Witnesses reported a multiple vortex tornado just prior to its arrival in Granville. The tornado hit Granville at 1647-1648 CST which coincided with the failure of the main power feed into town. The town was bisected by the half mile wide tornado with 12 buildings destroyed, 45 with major damage, and 26 with minor damage (mainly residential). The Granville State National Bank lost its roof and Hopkins Elementary School lost the roof over the old gymnasium with damage in nearly all the classrooms. Significant damage also occurred to Granville Drugs, the only drug store in town. In a strange twist of irony, the town had finally recovered from a major fire 4 years earlier that decimated much of the business district. The tornado continued northeast out of Granville and crossed over into La Salle County (WFO LOT) at 1653 CST (2253 Z), 3.8 miles Northeast of Granville.

The Granville/Utica tornado was the first significant test of a new statewide mutual aid response agreement. In Granville 5 people were injured by the tornado, including an elderly female who suffered a heart attack during the tornado and was eventually Life Flighted to a Peoria hospital. Injuries were low due to the 32 minutes of lead time before the tornado struck Granville. Damage in Granville is estimated to be at least \$8 million with the school suffering at least \$3.5 million in damage



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					Killed	Injured	Property	Crops	

ILLINOIS, Northwest

Bureau County

Spring Vly	20	1649CST 1650CST			0	0	30K		Hail(2.50)
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A low topped supercell that was producing a tornado across the Illinois River in Putnam County also produced golfball (1.75 inch) to tennis ball (2.50 inch) hail in Spring Valley, Illinois. This storm system was part of a larger outbreak of severe weather across Northern and Eastern Illinois.

IOWA, East Central and Southeast

Buchanan County

Independence Arpt	16	2227CST 2237CST			0	0	5K		Thunderstorm Wind (MG50)
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Buchanan County

Winthrop	16	2241CST 2251CST			0	0	5K		Thunderstorm Wind (EG52)
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Dubuque County

Dubuque	16	2344CST 2350CST			0	0	50K		Thunderstorm Wind (EG52)
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IAZ051

Benton

18	1300CST				0	0	5K		High Wind (MG54)
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A strong storm system moved from the Plains into the Upper Mississippi Valley and produced strong gradient winds of 26 to 30 knots (30 to 35 mph) with gusts of 43 to 48 knots (50 to 55 mph) across Eastern Iowa and Illinois. In Norway Iowa, a measured gust of 54 knots (62 mph) was recorded at 1300 CST (2 P.M. CDT). With the advent of sunset, the peak wind gusts subsided a little but were still over 35 knots (40 mph) for much of the night.

Clinton County

4.3 SW Delmar to 3.4 SW Delmar	20	1808CST 1815CST	1.3	100	0	0	30K		Tornado (F1)
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Rated low end F1;winds estimated at 75 mph.

A low topped supercell developed in East Central Iowa and interacted with a warm front across Clinton County. The increased wind shear produced a low end F1 Tornado. The tornado developed just east of 220th Avenue and south of 150th street, southwest of Delmar, Iowa and dissipated just west of the junction of 150th Street and U.S. 61. A brand new 42 x 80 foot machine shed was destroyed as well as a 100 year old barn, and a hog building. The farm house sustained very minor damage with some siding and a few shingles removed while a water tower had its wooden roof removed. According to the owners, the 100 year old barn was on its last legs.